EXHIBIT A - RESUME OF PAUL WIERZBA, P.Eng, Ph.D.

Paul Wierzba 1116 Lake Placid Drive SE Calgary, Alberta T2J 5H1

Summary

- ! Sixteen years engineering experience in the areas of: acoustics, vibration, industrial noise control, fluid mechanics, aerodynamics, dynamics, and combustion.
- ! Ten years experience in directing and managing teams of diverse individuals involved in R&D, application engineering, and product development projects.
- ! Eight years experience in patenting and intellectual property protection.
- ! Nine years experience in technical customer support.
- ! Two and a half years experience in designing, design evaluation, analysis, and code compliance assessment of pipelines and plant piping systems.
- ! Fourteen years experience in computer modelling and computer programming (Fortran, Basic).

Education

- ! M.B.A., Nova Southeastern University, Fort Lauderdale, Florida (November, 1998). Emphasis: Business Values Integration.
- Ph.D., Mechanical Engineering, University of Calgary, Calgary, Alberta (June, 1991). Emphasis: Dynamics, Vibration, Computer Modelling of Mechanical Systems.
- ! B.Sc., Mechanical Engineering, University of Calgary, Calgary, Alberta (June, 1984). Emphasis: Thermo-fluids, Solid Mechanics.

Recent Work Experience

TRILEX VIBROACOUSTICAL CORPORATION, Calgary, Alberta Principle Consultant, Owner, (January, 2002 – Present) Responsibilities:

- Responsible for engineering practice and overall corporate governance.
- Noise and vibration analysis and diagnostic of rotating machinery, particularly in relation to the power generation and Oil & Gas industries.
- Design of noise control treatments and acoustic detailing.
- Project management for supply and installation of noise control treatments.

OUTLAND TECHNOLOGIES INC., Calgary, Alberta Consultant, Technology Adviser, (March, 2002 – Present) Responsibilities:

- Assistance with research and development initiatives and undertakings.
- Design and analysis of pumping, gas compression and expansion systems.

Assistance with computer modelling and experimental testing.
 SKF AUTOBALANCE SYSTEMS AB, Gothenburg, Sweden
 Consultant, Technology and Intellectual Property Adviser, (July 1999 – Present)
 Responsibilities:

- Assistance with research and development initiatives and undertakings.
- Design review and feasibility assessment of mechanical systems
- Technical support for customer application projects.
- Intellectual property protection.

ATCO NOISE MANAGEMENT LTD., Calgary, Alberta Manager, Science & Technology, (May 1998 – March 2001) Responsibilities:

- Development and enhancement of 'in-house' capabilities and competencies pertaining to industrial noise control.
- Risk assessment and risk management of industrial noise control projects.
- Management of in-house noise control technology.

Accomplishments

- Established an acoustic analysis and design group within the company capable of performing acoustic analysis, modelling, design, and detailing work related to client projects.
- Established field measurement and data acquisition capabilities.
- Implemented internal tools for design quality assurance, component and subsystem design reviews and assessments, and risk management pertaining to noise control designs.

EUROPEAN TECHNOLOGIES INTERNATIONAL, INC., Calgary, Alberta *Vice-President, Engineering(March 1996 - January 1998)*Responsibilities

- Operations of the engineering department consisting of R&D, Computer Modelling, Applications Engineering, Instrumentation, Testing, Data Acquisition, Prototyping, and Fabrication.
- Intellectual property protection: patenting, technical disclosure, confidentiality agreements, contract review.
- ! Overall direction of the development of the proprietary anti-vibration technology; research grants from National Research Council of Canada, Industrial Research Assistance Program (NRC IRAP); technical assistance to existing customers.
- ! Preparation and delivery of high-level technical presentations for customers and investors.

Accomplishments

 Guided successful developments of four aftermarket products and two OEM (Original Equipment Manufacturer) applications resulting in two commercial products under

licensing agreements, an OEM licensing deal, and a successful market entry of an existing licensee.

- Spearheaded the development of the proprietary anti-vibration technology to a global status with wide recognition, including 1997 APEGGA Project Achievement Award, three technical publications, and two PEGG articles.
- Directed a successful prosecution of five U.S. patents, a European patent, and several other foreign filings.
- Guided developments of in-house computational and data acquisition tools.
- Co-authored several patents and patent applications; strengthened and extended intellectual property protection with new inventions and additional patent filings.

EUROPEAN TECHNOLOGIES INTERNATIONAL, INC., Calgary, Alberta Manager, Research and Development, (October 1994 - February 1996)

Responsibilities

- Development and advancement of the proprietary anti-vibration technology (theoretical and experimental); interviewing and hiring of engineering staff; development of computer models; NRC, IRAP research grants.
- ! Intellectual property protection: prior art review and technical support in patenting process
- ! Preparation of technical presentations for potential customers; preparation of customer training sessions and customer training; and technical assistance to Investor Relations department.

Accomplishments

- Secured financial support from NRC, IRAP in excess of \$150,000 over 18-month period.
- Guided and managed a rapid technology development program and compiled first technology binder.
- Facilitated successful expansion of engineering department from 5 to 13 employees; initiated a multifaceted research program including such areas as dynamics, fluid mechanics, tribology and data acquisition; and published first technical paper.
- Secured the first U.S. patent allowance and provided direction for future extension of patent protection.

EUROPEAN TECHNOLOGIES INTERNATIONAL, INC., Calgary, Alberta External Consultant, (February 1994 - October 1994)

Duties

- Provided technical support in meetings and dealings with existing and prospective customers.
- Evaluated the state of technology; performed extensive technical literature review; and recommended necessary future developments.
- Provided technical prior art reviews in the initial stages of the patenting process.

BURT ENGINEERING LTD. Calgary, Alberta Associate, (October 1991 - May 1994)

Duties

- Performed stress analysis of piping systems, nozzles, and pressure vessels.
- Carried-out code compliance assessment of oil and gas pipelines, plant piping, and pressure vessels (ASME VIII Div.1&2, B31.3, B31.4, B31.8; CSA Z183, Z184).
- Designed expansion loops, anchor blocks, and risers; liaised with clients; prepared engineering reports.

UNIVERSITY OF CALGARY, Calgary, Alberta

Lecturer - Mechanical Engineering Department, (September 1992 - May 1993)

Duties

 Full teaching responsibilities for senior level engineering courses: "Linear Control Systems" (ENME 585, Fall 1992) and "Advanced Dynamics" (ENME 483, Winter 1993).

List of US Patents Issued

I was instrumental in the preparation of invention disclosure, application preparation, and application draft review for the following US patents, of which I am a co-inventor. Additionally, I assisted the patent attorneys in successful prosecution of the applications.

Patent No.	Date Issued.	Patent Title
US6321627	11/27/2001	Sawing apparatus
US6082151	07/04/2000	Balancing device for use on washing machines
US6035758	03/14/2000	Saw blade drive system
US5997284	12/07/1999	Portable flare tank for degassing of drilling fluid
US5941133	08/24/1999	Torsional and translational vibration removing device
US5845542	12/08/1998	Dynamic balancing method and apparatus
US5829318	11/03/1998	Dynamic balancing method and apparatus
US5816115	10/06/1998	Weight compensating method and apparatus
US5768951	06/23/1998	Dynamic balancing method and apparatus
US5724862	03/10/1998	Dynamic balancing method and apparatus
US5613408	03/25/1997	Weight compensating method and apparatus
US5605078	02/25/1997	Weight compensating method and apparatus

I am also a co-inventor on a number of foreign patents as well as several patent pending applications presently with the US PTO.

List of Publications

[&]quot;Simulation of Motion of Cluster of Ice Floes", 14th IASTED International Conference, Applications in Fluid Flow, Vancouver, B.C., June 1986, (co-author: O. Vinogradov).

[&]quot;Technical Review of Activated Charcoal", Hi-Point Industries Limited, Calgary, Alberta, 1988.

"On Computer Simulations of Ice Motion in Rivers", Northern Hydrology Symposium, Saskatoon, Saskatchewan, July 1990, (co-authors: O. Vinogradov, A. J. Springer).

"Planar Dynamics of Topologically Variable Multi-Body Systems", Ph.D. thesis, University of Calgary, Calgary, Alberta, 1990.

"Simulation of Topologically Variable Multi Body Systems in Plane Motion", 1991 European Simulation Multiconference, Copenhagen, Denmark, 1991, (co-author: O. Vinogradov).

"An Analytical Examination of the Combustion of a Turbulent Fuel Jet in an Environment of Air Containing a Premixed Fuel or a Diluent", Spring Technical Meeting of the Combustion Institute, Ottawa, Ontario, May 1991, (co-authors: G.A. Karim, I. Wierzba).

"On the Validity of Computer Simulation of Motion of Broken Ice", IASTED International Conference, Modelling and Simulation, Calgary, Alberta, July 16-19, 1991, (co-author: O. Vinogradov).

"An Examination of the Combustion of a Turbulent Fuel Jet in an Environment Containing a Premixed Fuel or a Diluent and Air", ASME Energy Resources and Technology Conference, Houston, Texas, January 26-30, 1992, (co-authors: G.A. Karim, I. Wierzba).

"The Effect of Air Contamination on the Characteristics of a Jet Diffusion Flame", CSME FORUM 1992, Montreal, Quebec, June 1-5, 1992, (co-authors: G.A. Karim, I. Wierzba).

"The Formation of Flammable Zones within Vertical Cylindrical Tanks Containing Some Liquid Fuels", Proc. of the ASME/ETCE Conference, Houston, Texas, January, 1993, (coauthors: G.A. Karim, C.Y. Zhang).

"An Analytical Examination of the Combustion of a Turbulent Jet in an Environment Air Containing a Premixed Fuel and Diluent", Transactions of the ASME/Journal of Energy Resources Technology, September 1995, (co-authors: G.A. Karim, I. Wierzba).

"Automatic Balancing of Three-Dimensional Rigid Rotor Systems", Proceedings of Fifteenth Machinery Vibration Seminar, Banff, Alberta, October 1996, (co-authors: J. Park, W. Cao)

"Automatic Balancing of Rigid Rotor Using Ball Balancer", Proceedings of the KSME Fall Annual Meeting, Seoul, South Korea, 1996, (co-authors: J. Park, W. Cao)